

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	
	Filing Date	Herewith
	First Named Inventor	J. Wallace Parce
	Group Art Unit	1641
	Examiner Name	
Attorney Docket Number		100/00340

JC841 U.S. PTO
09/721508
11/23/00


U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
MC	AA	4,675,300		Zare et al.	06-23-1987	
	AB	4,737,464		McConnell et al.	04-12-1988	
	AC	4,908,112		Pace	03-13-1990	
	AD	4,963,498		Hillman et al.,	10-16-1990	
	AE	4,978,503		Shanks et al.	12-18-1990	
	AF	5,096,807		Leaback	03-17-1992	
	AG	5,126,022		Soane et al.	06-30-1992	
	AH	5,140,161		Hillman et al.	08-18-1992	
	AI	5,144,139		Hillman et al.	09-01-1992	
	AJ	5,164,598		Hillman et al.	11-17-1992	
	AK	5,171,132		Miyazaki et al.	12-15-1992	
	AL	5,171,534		Smith et al.	12-15-1992	
	AM	5,188,963		Stapleton	02-23-1993	
	AN	5,192,405		Petersen et al.	03-09-1993	
	AO	5,271,724		van Lintel	12-21-1993	
	AP	5,277,556		van Lintel	01-11-1994	
	AQ	5,278,048		Parce et al.	01-11-1994	
	AR	5,296,375		Kricka et al.	03-22-1994	
	AS	5,304,487		Wilding et al.	04-19-1994	
	AT	5,324,591		Georger, Jr. et al.	06-28-1994	
	AU	5,375,979		Trah	12-27-1994	
	AV	5,384,261		Winkler et al.	01-24-1995	
	AW	5,395,503		Parce et al.	03-07-1995	
	AX	5,427,946		Kricka et al.	06-27-1995	
	AY	5,429,734		Gajar	07-04-1995	
	AZ	5,445,939		Anderson	08-29-1995	
MC	BA	5,486,335		Wilding et al.	01-23-1996	
Examiner Signature				Date Considered	6/25/02	

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Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/721,508
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	First Named Inventor	J. Wallace Parce
	Group Art Unit	1641
	Examiner Name	
	Attorney Docket Number	100/00340

MCA	BB	5,496,697		Parce et al.	03-05-1996	
	BC	5,498,392		Wilding et al.	03-12-1996	
	BD	5,571,410		Swedberg et al.	11-05-1996	
	BE	5,585,069		Zanzucchi et al.	12-17-1996	
	BF	5,593,838		Zanzucchi et al.	01-14-1997	
	BG	5,605,662		Heller et al.	02-25-1997	
	BH	5,637,469		Wilding et al.	06-10-1997	
	BI	5,650,075		Haas	07-22-1997	
	BJ	5,658,723		Oberhardt	08-19-1997	
	BK	5,773,298		Lynggaard et al.	06-30-1998	
MCA	BL	5,780,754		Karlberg et al.	07-14-1998	
	BM					

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Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
MCA	BN	UK	2 248 891			04-22-1992		
	BO	EP	568 902			11-10-1993		
	BP	EP	637 998			07-31-1996		
	BQ	EP	639 223			07-03-1996		
	BR	WO	9405414			03-17-1994		
	BS	WO	9512608			05-11-1995		
	BT	WO	9527210			10-12-1995		
	BU	WO	9527211			10-12-1995		
	BV	WO	9533846			12-14-1995		
	BW	WO	9604547			02-15-1996		
	BX	WO	9614933			05-23-1996		
	BY	WO	9614934			05-23-1996		
	BZ	WO	9615269			05-23-1996		
MCA	CA	WO	9702357			01-23-1997		

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mcr	CB	WO	9722000			06-19-1997		
mcr	CC	WO	9805959			02-12-1998		


OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T
mcr	CD	BAO, J. et al., "Ultramicro enzyme assays in a capillary electrophoretic system," <u>J. Chrom.</u> 608:217-224 (1992)		
	CE	BUNIN et al., "A General and Expedient Method for the Solid-Phase Synthesis of 1,4-Benzodiazepine Derivatives," <u>J. Amer. Chem. Soc.</u> 114:10997-10998 (1992)		
	CF	CHO et al., "An Unnatural Biopolymer," <u>Science</u> 261:1303-1305 (1993)		
	CG	CHU, Y-H. et al., "Affinity Capillary Electrophoresis - Mass Spectrometry for Screening Combinatorial Libraries," <u>J. Am. Chem. Soc.</u> 118:7827-7835 (1996)		
	CH	DASGUPTA, P.K. et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," <u>Anal. Chem.</u> 66:1792-1798 (1994)		
	CI	HARMON, B.J. et al., "Mathematical Treatment of Electrophoretically Mediated Microanalysis," <u>Anal. Chem.</u> 65:2655-2662 (1993)		
	CJ	HARMON, B.J. et al., "Selectivity in Electrophoretically Mediated Microanalysis by Control of Product Detection Time," <u>Anal. Chem.</u> 66:3797-3805 (1994)		
	CK	HARRISON, D.J. et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <u>Anal. Chem.</u> 64:1926-1932 (1992)		
	CL	HARRISON, D.J. et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <u>Science</u> 261:895-897 (1993)		
	CM	JACOBSON, S.C. et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> 66(7):1107-1113 (1994)		
	CN	JACOBSON, S.C. et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> 66(7):1114-1118 (1994)		
	CO	JACOBSON, S.C. et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. Chem.</u> 66(14):2369-2373 (1994)		
	CP	JACOBSON, S.C. et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. Chem.</u> 67:2059-2063 (1995)		
↓	CQ	JACOBSON, S.C. et al., "Microchip electrophoresis with sample stacking," <u>Electrophoresis</u> 16:481-486 (1995)		
mcr	CR	JUNG et al., "Multiple Peptide Synthesis Methods and Their Applications," <u>Angew. Chem. Int. Ed. Engl.</u> 31(4):367-383 (1992)		

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	Examiner Name	
	Attorney Docket Number	100/00340


mcs	CS	KIKUCHI, Y. et al., "Optically Accessible Microchannels Formed in a Single-Crystal Silicon Substrate for Studies of Blood Rheology," <u>Microvascular Research</u> 44:226-240 (1992)	
	CT	KOUTNY, L.B. et al., "Microchip Electrophoretic Immunoassay for Serum Cortisol," <u>Anal. Chem.</u> 68:18-22 (1996)	
	CU	LINHARES, M.C. et al., "Use of an On-Column Fracture in Capillary Zone Electrophoresis for Sample Introduction," <u>Anal. Chem.</u> 63:2076-2078 (1991)	
	CV	MANZ, A. et al., "Miniaturized Total Chemical Analysis Systems: a novel concept for Chemical Sensing," <u>Sensors and Actuators B</u> 1:244-248 (1990)	
	CW	MANZ, A. et al., "Micromachining of monocrystalline silicon and glass for chemical analysis systems," <u>Trends in Anal. Chem.</u> 10(5):144-149 (1991)	
	CX	MANZ, A. et al., "Electroosmotic pumping and electrophoretic separations for miniaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> 4:257-265 (1994)	
	CY	PAVIA et al., "The Generation of Molecular Diversity," <u>Bioorg. Med. Chem. Lett.</u> 3(3):387-396 (1993)	
	CZ	RAMSEY, J.M. et al., "Microfabricated chemical measurement systems," <u>Nature Med.</u> 1:1093-1096 (1995)	
	DA	SCHMALZING, D. et al., "Solution-Phase Immunoassay for Determination of Cortisol in Serum by Capillary Electrophoresis," <u>Clin. Chem.</u> 41(9):1403-1406 (1995)	
	DB	SEILER, K. et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> 65:1481-1488 (1993)	
	DC	SEILER, K. et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow Within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> 66:3485-3491 (1994)	
	DD	SIMON et al., "Peptoids: A modular approach to drug discovery," <u>PNAS</u> 89:9367-9371 (1992)	
	DE	SONG, M.I. et al., "Multisample Analysis Using an Array of Microreactors for an Alternating-Current Field-Enhanced Latex Immunoassay," <u>Anal. Chem.</u> 66(6):778-781 (1994)	
	DF	WEAVER et al., "Gel microdroplets: rapid detection and enumeration of individual microorganisms by their metabolic activity," <u>Bio/Technology</u> 6:1084-1089 (1988)	
	DG	WILEY et al., "Peptidomimetics derived from Natural Products," <u>Med. Res. Rev.</u> , 13:327-384 (1993)	
	DH	WOOLLEY, A.T. et al., "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," <u>PNAS</u> 91:11348-11352 (1994)	
mcs	DI	ZUCKERMAN et al., "Efficient Method for the Preparation of Peptoids [Oligo(N-substituted glycines)] by Submonomer Solid-Phase Synthesis," <u>J. Amer. Chem. Soc.</u> , 114:10646-10647 (1992)	

Examiner Signature		Date Considered	6/25/02
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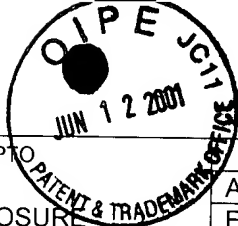
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<p>Substitute for form 1449A-B/PTO</p> <p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p style="text-align: center;"><i>(use as many sheets as necessary)</i></p>	Complete if Known	
	Application Number	09/346,660 09/721,508
	Filing Date	July 1, 1999
	First Named Inventor	John Wallace Parce
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
Attorney Docket Number	01-000460US	

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
MC5	AA	4,390,403	—	Batchelder	06-28-1983	—

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	6/25/02

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#7
(Modified) PTO/SF 004-2 (10-95)
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Substitute for form 1449A-B/PTO

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JUN 15 2001

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number **09/721,508**
Filing Date **November 22, 2000**
First Named Inventor **John Wallace Parce**
Group Art Unit **1641**
Examiner Name **M. Pham**
Attorney Docket Number **01-000461US**

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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
<i>mcr</i>	AA	3,918,908		Moyer	11-11-1975	
	AB	4,443,408		Mintz	04-17-1984	
	AC	4,554,839		Hewett et al.	11-26-1985	
	AD	4,740,708		Batchelder	04-26-1988	
	AE	4,952,518		Johnson et al.	08-28-1990	
	AF	5,108,703		Pfost et al.	04-28-1992	
	AG	5,147,606		Charlton	09-15-1992	
	AH	5,223,219		Subramanian et al.	07-29-1993	
	AI	5,296,114		Manz	03-22-1994	
	AJ	5,441,894		Coleman et al.	08-15-1995	
	AK	5,460,709		Sarrine et al.	10-24-1995	
	AL	5,540,889		Gordon et al.	07-30-1996	
	AM	5,560,811		Briggs, et al.	10-01-1996	
	AN	5,627,643		Birnbaum	05-06-1997	
	AO	5,632,876		Zanzucchi et al.	05-27-1997	
	AP	5,635,358		Wilding et al.	06-03-1997	
	AQ	5,637,458		Frankel	06-10-1997	
	AR	5,645,702		Witt et al.	07-08-1997	
	AS	5,699,157		Parce	12-16-1997	
	AT	5,716,825		Hancock et al.	02-10-1998	
	AU	5,726,026		Wilding et al.	03-10-1998	
	AV	5,731,212		Gavin	03-24-1998	
✓	AW	5,750,015		Soane et al.		
<i>mcr</i>	AX	5,755,942		Zanzucchi et al.	03-26-1998	

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Application Number **09/721,508**
Filing Date **November 22, 2000**
First Named Inventor **John Wallace Parce**
Group Art Unit **1641**
Examiner Name **M. Pham**
Attorney Docket Number **01-000461US**

JUN 15 2001

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MC1	AY	5,770,029		Nelson et al.	06-23-1998	
	AZ	5,779,868		Parce et al.	07-14-1998	
	BA	5,800,690		Chow et al.	09-01-1998	
	BB	5,824,204		Jerman	10-20-1998	
	BC	5,830,681		Hursting et al.	11-03-1998	
	BD	5,842,787		Kopf-Sill et al.	12-01-1998	
	BE	5,852,495		Parce	12-22-1998	
	BF	5,858,187		Ramsey et al.	01-12-1999	
	BG	5,858,188		Soane and Soane	01-12-1999	
	BH	5,858,195		Ramsey et al.	01-12-1999	
	BI	5,858,804		Zanzucchi et al.	01-12-1999	
	BJ	5,863,708		Zanzucchi et al.	01-26-1999	
	BK	5,869,004		Parce et al.	02-09-1999	
	BL	5,876,675		Kennedy	03-02-1999	
	BM	5,880,071		Parce et al.	03-09-1999	
	BN	5,882,465		McReynolds	03-16-1999	
	BO	5,885,470		Parce et al.	03-23-1999	
	BP	5,919,070		Khan et al.	07-06-1999	
	BQ	5,942,443		Parce et al.	08-24-1999	
	BR	5,948,227		Dubrow	09-07-1999	
	BS	5,955,028		Chow	09-21-1999	
	BT	5,957,579		Kopf-Sill et al.	09-28-1999	
	BU	5,958,203		Parce et al.	09-28-1999	
	BV	5,958,694		Nikiforov	09-28-1999	
V	BW	5,959,291		Jensen	09-28-1999	
MC5	BX	6,132,685		Kercso et al.	10-17-2000	

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			Number				
MC5	BY	WO	96/15450	David Sarnoff Research Institute	05-23-1996	—	
	BZ	WO	96/15576	David Sarnoff Research Institute	05-23-1996	—	
	CA		WO 98/00231	Parce et al.	01-08-1998		
	CB		WO 98/00705	Parce et al.	01-08-1998		
	CC		WO 98/00707	Chow et al.	01-08-1998		
	CD		WO 98/02728	Parce	01-22-1998		
	CE		WO 98/05424	Chow et al.	02-12-1998		
	CF		WO 98/22811	Parce et al.	05-28-1998		
	CG		WO 98/45481	Knapp et al.	10-15-1998		
	CH		WO 98/45929	Nikiforov et al.	10-15-1998		
	CI		WO 98/46438	Parce et al.	10-22-1998		
	CJ		WO 98/49548	Dubrow et al.	11-05-1998		
	CK		WO 98/55852	Sundberg et al.	12-10-1998		
	CL		WO 98/56956	Kopf-Sill et al.	12-17-1998		
	CM		WO 99/00649	Jensen	01-07-1999		
	CN		WO 99/10735	Chow et al.	03-04-1999		
	CO		WO 99/12016	Chow	03-11-1999		
	CP		WO 99/16162	Parce	04-01-1999		
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MC5	CR		WO 99/19516	Nikiforov	04-22-1999		

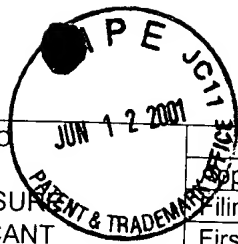
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	Examiner Name	M. Pham
	Attorney Docket Number	01-000461US

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MOF	CS	1	WO 99/29497	Kennedy	06-17-1999		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
MOF	CT	Cohen et al. <u>Anal. Chem.</u> 273:89-97 (1999)	
↓	CU	Effenhauser et al. <u>Anal. Chem.</u> 65:2637-2642 (1993)	
MOF	CV	Manz et al. <u>J. Chromatog.</u> 539:253-258. (1992)	

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 First Named Inventor **John Wallace Farrow**
 Group Art Unit **1641**
 Examiner Name **Unassigned**
 Attorney Docket Number **01-000461US**

JUN 15 2001

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MC5	AA	5,587,128		Wilding et al.	12-24-1996	
MC5	AB	5,603,351		Cherukuri et al.	02-18-1997	

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FORM PTO-1449
Second Supplemental
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ATTY. DOCKET NO.
2052.0020006/TUM/EDH

APPLICATION NO.
09/721,508

APPLICANT
Parce *et al.*

FILING DATE
November 22, 2000

GROUP
1641

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,077,845	03/07/1978	Johnson			
	AB1	5,015,350	05/14/1991	Wiktorowicz			
	AC1	5,264,101	11/23/1993	Demorest <i>et al.</i>			
	AD1	5,500,071	03/19/1996	Kaltenbach <i>et al.</i>			
	AE1	5,609,828	03/11/1997	O'Bear <i>et al.</i>			
	AF1	5,916,812	06/29/1999	Chen <i>et al.</i>			
	AG1						
	AH1						
	AI1						
	AJ1						
	AK1						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MCS	AL1	0107631 A2	05/02/1984	EP	—	—	Yes No
	AM1						Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MCS	AR	1	Fan, Z.H. <i>et al.</i> , "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <u>Anal. Chem.</u> Vol. 66, pp. 177-184 (1994)
	AS	1	Ghandhi, S.K., <u>VLSI Fabrication Principles</u> , pp. 533-565 (John Wiley & Sons 1994)
MCS	AT	1	Jacobson, S.C. <i>et al.</i> , "Precolumn Reactions with Electrophoretic Analysis integrated on a Microchip," <u>Anal. Chem.</u> Vol. 66, pp. 4127-4132 (1994)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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INFORMATION DISCLOSURE STATEMENT

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2052.0020006/LEA/EDHAPPLICATION NO.
09/721,508APPLICANT
Parce et al.FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1						
	AB1						
	AC1						
	AD1						
	AE1						
	AF1						
	AG1						
	AH1						
	AI1						
	AJ1						
	AK1						

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1						Yes No
	AM1						Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MCS	AR	1	Notice Declaring Interference in U.S. Patent No. 5,942,443, Pat. & T.M. Office Board of Patent Appeals and Interferences, Patent Interference No. 104,815, dated 28 February 2002.
	AS	1	
	AT	1	

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